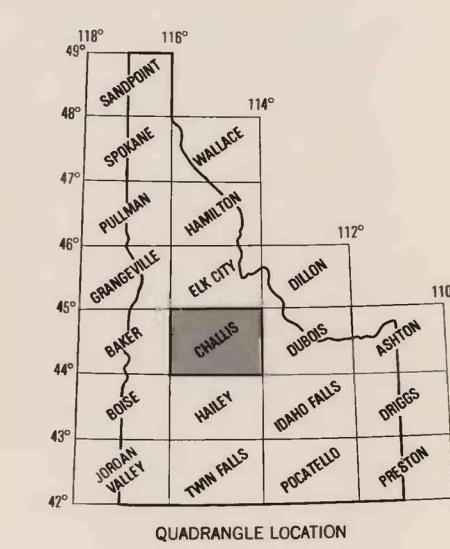


Basis modified from U.S. Geological Survey, 1957  
Limited revision 1983  
100,000-foot grid based on Idaho coordinate system,  
central and west zones

1985 MAGNETIC DECLINATION VARIES FOR THIS SHEET FROM 18°30' EASTERLY FOR THE CENTER OF THE WEST  
EDGE TO 18°00' FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 5' WESTERLY

## RESOURCE POTENTIAL FOR PRECIOUS-METAL DEPOSITS HOSTED BY HIGH-LEVEL RHYOLITES IN THE CHALLIS 1° x 2° QUADRANGLE, IDAHO

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EXPLANATION OF RESOURCE POTENTIAL  
Area having resource potential for precious-metal deposits hosted by  
high-level rhyolites—See table 27 for scoring of recognition criteria  
High potential—Areas 6, 8  
Moderate potential—Areas 2, 5, 7, 10  
Low potential—Areas 1, 3, 4, 9, 11–16

**Mine or prospect**  
1 Rabbit Foot  
2 Singher  
3 Snowshoe  
4 Parrot Mountain  
5 Golden Sunbeam  
6 Red Mountain

### LIST OF GEOLOGIC TERRANES

al	Alluvial terrane
pl	Eocene Plutonic terrane
vo	Challis volcanic terrane
ba	Idaho batholith terrane
bs	Black shale terrane
ca	Carbonate terrane
ms	Proterozoic terrane
	Trans-Challis fault system terrane
	Regions of overlap between carbonate terrane and black shale terrane
	Mostly rock glaciers; alluvial fans; landslide debris; talus; and terminal, end, and lateral moraines. Also includes Miocene volcanic and sedimentary rocks and noncarbonate roof pendants in the Idaho batholith of undivided Paleozoic? or Proterozoic? age
	Terrane boundary
	Boundaries of calderas and other volcano-tectonic structures—Dashed where approximately located

### DEFINITIONS OF RESOURCE POTENTIAL

**High mineral resource potential** exists in areas where geologic, geochemical, and geophysical characteristics favorable for resource accumulation are known to be present, or where enough of these characteristics are present to give strong support to genetic models favorable for resource accumulation and which are independent of mineralization in the broad sense—high places (Taylor and Steven, 1983, p. 1269).

**Moderate mineral resource potential** exists in areas where geologic, geochemical, and geophysical characteristics favorable for resource accumulation are known or can reasonably be inferred to be present but where evidence for mineralization is less clear or has not yet been found (Taylor and Steven, 1983, p. 1269).

**Low mineral resource potential** exists in areas where geologic, geochemical, and geophysical characteristics favorable for resource accumulation are known or can reasonably be inferred to be present, where evidence indicates that mineral concentrations are unlikely, or where requirements for genetic models cannot be supported (Taylor and Steven, 1983, p. 1269).

**Unknown mineral resource potential** exists where the level of knowledge, at an appropriate scale, is so inadequate that to classify potential as high, moderate, or low would be misleading (Taylor and Steven, 1983, p. 1269).

In some instances an assignment of no mineral resource potential for a particular ore deposit type or types has been given to specific areas within the Challis quadrangle. In these cases the occurrence of the particular ore deposit type is dependent on the presence of a specific lithology. Known absence of the required rock type precludes the occurrence of the ore deposit.